



Mathematical Modeling of Extraction of Chlorophyll from *Alternanthera sessilis* Cultivated in Sri Lanka

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Abstract

Mass transfer modeling was used to study the extraction efficiency and the effect of temperature on solvent extraction of chlorophyll from. Alternanthera sessilis, which is a leafy vegetable cultivated in tropics and subtropics. Aqueous acetone with 80% (v/v) was used as the solvent and the chlorophyll concentration was analyzed spectrophotometrically. The experimental results were in good agreement with the model data for temperatures below 30°C. The degradation of chlorophyll beyond 30°C was found to be significant.